

Arsine AsH₃

Synonyms: Arsenic Trihydride, Hydrogen Arsenide

Physical Constants of Gas

Molecular Weight 77.95
 Specific Volume 5 CF/lb. (0.31 m³/kg)
 Boiling Point -80.5°F (-62.5°C) 1 atm
 Gas Density 70°F 1 atm 3.29 kg/m³

Cylinder Data

CGA Valve Outlet 350, 632

Shipping Data

Shipping Class 200
 DOT/TC Name Arsine
 DOT Class 2.3 (Poisonous Gas)
 TC Class 2.3 (2.1) Toxic Gas (Flammable Gas)
 WHMIS Class AB1D1AD2A
 DOT Label Poison Gas, Flammable
 CAS Registry No. 7784-42-1
 UN No./ATA No. UN2188

Safety Information

Poisonous, flammable liquid and gas under pressure.
 Flammability limits: lower 5.1%; upper 78%.
 Cancer suspect agent.
 Causes severe blood, liver, kidney and other organ damage.
 Symptoms may be delayed.
 May form explosive mixture with air.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
Electronic Grade 2 CH ₄ < 0.1 ppm CO < 0.1 ppm CO ₂ < 0.1 ppm H ₂ O < 0.1 ppm N ₂ < 0.1 ppm O ₂ < 0.1 ppm	99.9995%	16	8	4	205	14	66	30	Application Dependent – Please Inquire	—
		7	4	2	205	14	27	12		
Electronic Grade 1 CH ₄ < 1 ppm CO < 0.5 ppm CO ₂ < 1 ppm H ₂ O < 0.5 ppm N ₂ < 1 ppm O ₂ < 1 ppm Phosphine < 1 ppm	99.999%	16	25	11	205	14	76	35	Application Dependent – Please Inquire	—
		7	11	5	205	14	33	15		

Our SCOTT™ gas delivery equipment is guaranteed to preserve the purity and integrity of your gas. See page 261.